

#### ASSISTANT SECRETARY OF DEFENSE 6000 DEFENSE PENTAGON WASHINGTON, DC 20301-6000

February 19, 1998



COMMAND, CONTROL, COMMUNICATIONS, AND INTELLIGENCE

MEMORANDUM FOR SECRETARIES OF THE MILITARY DEPARMENTS
CHAIRMAN OF THE JOINT CHIEFS OF STAFF
DIRECTORS OF THE DEFENSE AGENCIES
CO-CHAIRS, INTELLIGENCE SYSTEMS BOARD

SUBJECT: Defense Message System (DMS) Policy Guidance Update

As we proceed on an aggressive DMS implementation schedule (to include Automatic Digital Network (AUTODIN) closure), we must assure the fielding of a robust system that supports tactical/deployable elements, sustaining base, and intelligence communities. To ensure success, we need total community cooperation to provide for life cycle support, critical AUTODIN closure activities, and adherence to recommended connection criteria and engineering practices. This memorandum specifically addresses:

- Elimination of Data Transfer Traffic on AUTODIN (Attachment 1);
- Funding Responsibilities for the DMS: Fiscal Years 2000 2004 (Attachment 2);
- Recommendations for Defense Information Systems Network (DISN)
   Connection Criteria and Engineering Practices to Ensure a

Robusi DMS (Attachment Ši):

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This memorandum is intended to provide sufficient policy guid until the DMS directive, currently in staffing, is issued. My coin of contact is Ms. Cma Bliott, who is assigned to the office of the Deputy Assistant Secretary of Defense for Command, Control and committations, telephones (703) 697-7627/695-7181;

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Acting)

Attachments

cc:
DISA/DMS/PMO
IC DMS Management Office



# III THITHINITANI ANANAL ERANGEER, TRAFFIC, AN AUTODIN

Timely closure of AUTODIN requires each Service and Agency

o-other transmission means. A status reportation of those plans is due to the DMS Implementation of the date of this memorandum. Although

(in keeping with earlier guidance),

to use Autobin ion data transport at the simary objective of these plans must be to ern traffic from Autodin by September 1999.

messaging traffic=t
on implementation of
Group within 60 day
traffic from AUTODIN
applications continue

present time. The pr remove all data patte

# FUNDING RESPONSIBILITIES FOR THE DEFENSE MESSAGE SYSTEM (DMS): FISCAL YEARS 2000-2004

This attachment provides the Military Departments, Intelligence Community, and Defense Agencies with a methodology for defining their FY 2000-2004 DMS program (to include staffing) requirements. DMS is a service provided by the Defense Information Infrastructure (DII). Thus, the cost recovery and life cycle maintenance (LCM) concepts within the Defense-wide Capital Fund have some similarity to the Defense Information System Network (DISN).

As the Department of Defense's integrated, common messaging Services DMS must be flexible and interoperable between our Services/Agencies, the Intelligence Community, Federal Agencies, and our Allies. Hence, we must plan, develop, and fund for a

e; ... Although wiewed as an ... application layer service. Des requires havowane, software in implementation.

efense Information Systems Agency (DISA) has overall succession responsibility and provides all strategic, collateral provides all strategic, collateral trategic and non-strategic services (1.e.; local enclave, the strategic services (1.e.; local enclave)

The Joint Staff will ensure the Joint Communications Support Element (JCSE) is fully equipped to support at least two joint ask forces (JTFs), to include the associated strategic and omponent interfaces and all communications pipelines including communications for intelligence systems) to any JTF endquarters, consistent with CJCSI 6110.01, January 25, 1996, ubject, "Controlled Tactical Communications Assets."

he Intelligence Community will ensure similar infrastructure ervice (to include the tactical/deployable enclave) upporting special compartmented information (SCI) is vailable for the Department and the national Intelligence ommunity.

he Military Departments and Defense Agencies are responsible of their respective Service/Agency requirements (such as ases/posts/camps/stations and tactical/deployable enclaves). inally, DISA, in coordination with the Intelligence ommunity, is responsible for maintaining configuration anagement and interoperability throughout the DMS rehitecture.

ATTACHMENT 2

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Detailed guidance on the critical roles and responsibilities

[ or reflections implementation, represented ICM of DMS (which includes the strategic/common backbone infrastructure,

Service/Agency infrastructure, SCI infrastructure (to include tactical/deployable enclaves); and the collateral tactical/deployable infrastructure) is provided below:

# Office of the Assistant Secretary of Defense (Command, Control, Communications and Intelligence) (OASD(C3I))

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- Serve as functional sponsor.

#### The Joint Staff

- Review DMS actions for consistency with validated messaging requirements.
- Validate DMS operational requirements.
- Provide assistance in delineating funding responsibilities
   between inint/common and Service/Component unique requirements
- within a Headquarters, Joint Task Force and the

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- integration and intersperability messaging requirements.
  -serve con unless RYS Gordigovaction Management Board (DMS CMR)
- Update joint doctrine/publications; as required.

#### Intelligence Community -

- Provide operational management and control of the Department's messaging service for the intelligence portion (noncellateral).
- Provide, operate, and maintain the intelligence portion of the DMS infrastructure (i.e., special compartmented networks (to include tactical/deployable)) until SCI and collateral infrastructures can be combined as defined in the target architecture.
- Represent the IC on the DMS CMB.
- service is in compliance with approved and validated requirements.
- Manage the intelligence portion of the DoD-wide implementation of DMS.
- Ensure the performance and accreditation criteria for user-

- Provide, operate, and maintain Certification Authority Workstations (CAWs) for the Intelligence Community.
- Designate a single point of contact for coordination.

#### Defense Information Systems Agency

- Provide operational direction and management control of the Department's collateral messaging service.
- Provide, operate, and maintain the joint/common, collateral provide Provide Construction and maintain the joint/common, collateral infrastructures can be combined as defined in the target architecture.
  - Ensure the Department's messaging service is in compliance with approved and validated requirements, per the Joint Chiefs of Staff (JCS).
  - Establish and convene the DMS CMB.
  - Coordinate DOD-wide implementation of DMS.
  - Perform DMS compliance test and evaluation of DMS components.
  - Perform system-wide engineering and integration, modeling, and simulation.
- Provide and install the initial CAWs to support the DMS community of the initial CAWs, Sorvices/Components can acquire additional CAWs, if desired).
- In coordination with ASD(C3I), maintain oversight DMS acquisition.
- Serve as DoD registration authority.
- Participate in NSA's Multi-Level Information System Security Initiative (MISSI) CMB.

## Military Departments, Defense Agencies

- Maintain and ensure an executable program (both funding and manpower) for their respective Service/Agency requirements (such as bases/posts/camps/stations and tactical/deployable englaves throughout the DMS implementation) which includes requirements within the strategic/joint, Service/Agency [[pintages: and tactical/deployable environments.]
  - Ensure Service and Agency portions of the DMS phase-in planning and AUTODIN phase-out planning is current, executed on saledule, and consistent with validated requirements and overall DoD program milestones.
  - Ensure user-provided software and hardware components meet DMS compliance and interoperability criteria as defined in DoD messaging.
- Provide, operate, and maintain all user components (see deritations derbw;)
- Provide, operate, and maintain non-strategic; colfateral DMSinfrastructure (i.e., bases/posts/camps/stations and tactical/deployable enclaves).

- Provide operational management of assigned DMS components in accordance with approved DMS operational policy and procedures.
- Identify sub-registration authority to the DoD registration authority and comply with DMS Registration Guidance.
- Ensure adequate training in accordance with the DMS Training Plan.
- Designate DMS Security Officer and site accreditation authority.
- Provide for Certification Authority Workstation (CAW) operations, maintenance, and training.
- Ensure tenant activities are accommodated and appropriate Inter-Service Agreements are in place at both home station and deployable locations.
- Indeptify Abandprosuige Authorities for Certification Authorities to the National Security Agency (NSA).
- Establish policies, procedures, and doctrine for validating Certification Authority nomination, in coordination with NSA quidelines.
- Designate a single point of contact for coordination.

#### National Security Agency

Develop/approve/certify/endorse and ensure availability of security products necessary to ensure secure writer-to-reader

 Security products necessary to ensure secure writer-to-reader writer-to-reader

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cional Security Policy Creation

- Provide policies and procedur products.
- Establish and operate the Nat Authority (PAA).
- Establish and operate the Nat Authorities (PCAs).

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## Designation approves Lutthberities (NICA NSA Joint Staff, and DIA)

- Serve as Designated Approval Authorities for the DMS.
- Designate a single point of contact for coordination.

#### DEFINITIONS

User tomponents. All components used by the Military Service and Agency Swalls-ING warrate include local enclave connectivity and : connectivity to the DISN POP:

User Agents (UAs) Message Stores Profiling User Agents

Local Management Workstations FORTEZZA Cards and Readers

Local Mail List Agents Subordinate Message Transfer Agent Multiple Users

Groupware Servers

Desktop

Multiple Users

Multiple Users (not mandatory)

Multiple Users Multiple Users

Desktop (may also be used for other applications)

Multiple Users Multiple Users

Infrastructure Components. Components that support the global messaging infrastructure, including DISN connectivity:

Backbone Message Transfer Agents Global Directory System Agents Global Multifunction Interpreters Global Management Workstations Global Mail List Agents

The actual location of global components will be imear by toody by rease lesigni decime... Beaings! deployment of alobal ents is typical.

## ite Security Products/Services (approved by NSA):

l Signature tion Capability graphic Application Protocol Interfaces mpatible firewalls and guards ty Management Infrastructure ication Authority Workstations

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### RECOMMENDATIONS FOR DEFENSE INFORMATION INFRASTRUCTURE (DII) NETWORK DII CONNECTION CRITERIA AND ENGINEERING PRACTICES TO ENSURE A ROBUST DEFENSE MESSAGE SYSTEM (DMS)

ine on vinessaging system indication de server entent to the if complisher in the DMS area jectives for interoperable electronic cting command and control, administrative, information exchange. The DII provides : nmunications support for the DMS including networks for the national intelligence Department of Defense (DoD) Components are facilities, equipment and services necessary mination, transmission and receipt of r sites (i.e., within the confines of a meia latien, laticachied, estare Fodoral III locations).

port user communities with a range onsibilities to include critical combat support messaging. Critical re a high degree of availability and ly access to pre-designated redundant mirrored system components, high olerant hardware platforms, reliable

power, and adequate technical support.

with\_national obj messaging, suppor and intelligence long-haul telecor special purpose The 1 community. responsible for : to support disser messages on thei: base/post/camp/statton, building, or deployable

Component sites sup of mission support respons command and control and enclaves and users requi reliability through read connectivity, back-up or availability or fault to

The DMS Initial Operational Test and Evaluation (IOT&E) clearly highlighted the importance of adhering to sound engineering practices when connecting DMS components to the underlying long-haul and base level communications infrastructure. Thereby, the following guidelines will assist in DII and special purpose network connectivity planning to ensure DMS service.

DMS Subordinate Message Transfer Agents (SMUTS), Dirnntery\_Service Agents (LSD's). mail and/or grouper

servers or any other DMS component (such as a Molltimeunchic Interpreter (MFI), Profiling User Agents (PUA), dedicated Mail List Agent (MLA), etc...) should be a maximum of two router hops away from the closest DII Point of Presence (POP), commonly referred to as a regional or hub router.

There should be a primary and an alternate telecommunications path to ensure DII/special purpose network connectivity to the DMS site for critical Defense Information Infrastructure (DII) nodes. Alternate DII

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ATTACHMENT

connectivity can be provided by several different sources,

rent 101: Par a 771 ite within the same , it is recommended that any two router hops away from a

eady existing at the site, a

ations path should be of message traffic to pass a site's composite requirements. Formula ions can be found in the DMS Requirements for DMS at a

Lance and such services - 1 - 1 - - - - - 1 - b) ? - + + be PM action right what was a value be c other DII router connections alre separate cincuit path to a dulie connection provided by another s geographical region, etc. Again alternative path be a maximum of DII POP.

> The primary telecommunic sufficient capacity as to allow without delay as well as support information technology bandwidth variables and associated assumpt White Paper entitled, "Bandwidth

The electronic version of this document, available-Site." on the DMS Home page (http://www.disa.mil/D2/dms/invited/index2.html), includes an embedded Excel worksheet that performs the necessary calculations.

- Total Delay and Availability of the circuit between the DMS site and DII POP are also considerations when determining the telecommunications path, especially for organizational users. These parameters (e.g., an availability objective of 99.975) are provided in "DISA Quality and Reliability Performance Guidelines", (JIEO Engineering Publication 6-95). The criteria identified in this document should be cited when the service is ordered.
- For the majority of cases, the DII should not be part of the local, primary telecommunications path for DMS Terrestratific destined for a recipient located on the same sitore the originator Sime transmission and dissemination facilities should be designed such that local traffic stays within the confines of the site network. There may be certain times when this cannot be avoided (e.g., certain mail list expansions).
- Use of firewalls between the site and the outside world (long haul, regional, wide area networks and local telecommunications systems including DII, Internet, and others) and guards between security enclaves is becoming the The Defense Information Systems Agency, in ##### tiesowith thiw notice loss out the leader, will

maintain and provide current information and reference